

**ESTIMATE FOR RAISING PENAL COMPENSATORY AFFORESTATION PLANTATION UNDER
YINGKIONG FOREST DIVISION**

Name of Project Const. of Yammeng HEP (20 MW) in Upper Siang Dist. of Arunachal Pradesh by Yammeng Green Energy Pvt.Ltd.

User Agency M/s Yammeng Green Energy Pvt.Ltd.

Location of CA Gameng-Komkar VFR

Area of CA **10.43 ha x 2= 20.86 ha or say 20.90 ha**

Perimeter **2560 Rmt.**

Wages rate (DL) 283/-

Sl. No.	Item of works	Unit	Qty	Rate	Amount	Remarks
A	Creation of Nursery 1100 Nos per ha (spacing 3m x 3m)	No.	22990	19	436810	
1	1ST YEAR OPERATION					
	Survey & demarcation and preparation of map @ 5 DL/ ha	Ha	20.90	1415	29574	
	Add paid holidays @ 18.63%					
2	2ND YEAR OPERATION					
	(i) Erection of barbed wire fence (5 strand) fencing per 100 Rmt	Rmt	2560	216.41	554010	
	(ii) Maint. Barbed wire fencing @ 5% of erection cost in each year					
	Add 10% escalation value by multiplying factor:					
	1.20 for 3rd year					
	1.3 for 4th year					
	1.4 for 5th year					
	1.5 for 6th year					
3	Raising of seedlings for casualty replacement	No.	5748	19.00	109212	
	3rd year 15%=165 Nos					
	4th year 10%= 110 Nos. Total= 275 Nos					
4	RAISING OF PLANTATION					
	(i) Clearance of brush wood, planting lines & staking of	Ha	20.90	50119	1047487	
	(ii) Alignment of pits & preparation of stakes, staking					
	(iii) Digging of pits 30 Cm X 30 Cm X 30 Cm					
	(iv) Transportation of seedlings to the planting site i/c planting					
	(v) Making of inspection path 1mtr wide					
	(vi) Fire line cutting 3mtrs wide along the periphery					
	(vii) Tending - 4 weeding					
	(viii) Add paid holiday @ 18.63%					

	Add 10% escalation value on total of item 4(i) to 4(viii)					
5	3RD YEAR OPERATION					
	(i) Tending - 3 weeding	Ha	20.90	17999	376179	
	(ii) Casualty replacement 15%					
	(iii) Maint. of inspection path					
	(iv) Maint. Of fireline					
	(v) Add paid holiday @ 18.63 % on item 5 (i) to 5 (iv)					
	Add 20% escalation value on total of item 5(i) to 5(v)					
6	4TH YEAR OPERATION					
	(i) Tending -2 weedings	Ha	20.90	14348	299873	
	(ii) Casualty replacement 10%					
	(iii) Maint. Of inspection path					
	(iv) Maint. of fireline					
	(v) Add paid holiday @ 18.63% on item 6(i) to 6 (iv)					
	Add 30% escalation value on item 6(i) to 6(v)					
7	5TH YEAR OPERATION					
	(i) Tending - 1 weedings	Ha	20.90	6735	140762	
	(ii) Maint. of inspection path					
	(iii) Maint. Of fire line					
	(iv) Add paid holiday @ 18.63% on item 7(i) to 7 (iii)					
	Add 40% escalation value on item 7(i) to 7(iv)					
8	6TH YEAR OPERATION					
	(i) Tending - 1 weedings	Ha	20.90	7217	150835	
	(ii) Maint. of inspection path @ 1 DL / ha					
	(iii) Maint. of fireline @ 1DL/ha.					
	(iv) Add paid holiday @ 18.63% on item 8(i) to 8 (iii)					
	Add 50% escalation value on item 8(i) to 8(iv)					
9	7TH YEAR OPERATION					
	(i) Maint. of inspection path / fireline & climber cutting	Ha	20.90	2717	56785	
	(ii) Add paid holiday 18.63% item 9(i)					
	Add 60% escalation value on total item 9(i) to 9(ii)					
10	8TH YEAR OPERATION					
	(i) Maint. of inspection path / fireline & climbing cutting	Ha	20.90	2887	60338	
	(ii) Add paid holiday @ 18.63% on total of item 10(i)					

	Add 70% escalation value on item 10(i) to 10 (ii)					
11	9TH YEAR OPERATION					
	(i) Maint. of inspection path / fireline & climber cutting	Ha	20.90	3056	63870	
	(ii) Add paid holiday @ 18.63% on item 11 (i)					
	Add 80% escalation value on total of item 11(i) to 11 (ii)					
12	10TH YEAR OPERATION					
	(i) Maint. of inspection path / fireline & climber cutting	Ha	20.90	3226	67423	
	(ii) Add paid holiday @ 18.63% on item 12 (i)					
	Add 90% escalation value on total of item 12 (i) to 12 (ii)					
13	Wages for plantation watchman at the rate of U/skilled labourer round the year for 10 years (one watchman for every 25 ha of area subject to a minimum area of 15 ha) @ Rs.7000/- for Area-I & Rs.7500/- for Area-II per month.Add escalation value by multiplying factor 1st year	No.	1	1479000	1479000	
	(M.F=1.1) for 2nd year					
	(M.F=1.2) for 3rd year					
	(M.F=1.3) for 4th year					
	(M.F=1.4) for 5th year					
	(M.F=1.5) for 6th year					
	(M.F=1.6) for 7th year					
	(M.F=1.7) for 8th year					
	(M.F=1.8) for 9th year					
	(M.F=1.9) for 10th year					
14	a) Const.of OBT labourer shed (2-room) for workers at Plantation site subject to a minimum area of 15 ha and upto 25 ha beyond 25 ha one room to be added for every 13 ha or part thereof at proportionate cost.	No.	1	406615	406615	

	b) Maint.of OBT hut @ 25% of the const.of cost per year from 4th year to 6th year including:					
	1.1 for 2nd year x 76340					
	1.2 for 3rd year					
	1.3 for 4th year					
	1.4 for 5th year					
	1.5 for 6th year					
	1.6 for 7th year					
	1.7 for 8th year					
	1.8 for 9th year					
15	Approach foot track to plantation in area where	Rmt	4000	6.23	24920	
16	Monitoring, Supervision (POL, Maint.of vehicles, including TE etc.) @ 12% and Contingency @ 3% to meet up unseen expenditure i.e.15% on item No.1 to 15 plus nursery cost over Rs.5303694/-				795554	
17	Entry point Activities at the rate of Rs. 14,300/- per ha.	Ha	20.90	14300	298870	
18	Provision for soil and moisture conservation structures (where needed) @ Rs. 7000/- per ha.	Ha	20.90	7000	146300	
				Grand Total	6544418	
				or say	6544400	

(Rupees Sixty five lakh forty four thousand four hundred) only

Prepared by:

D.Paul

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O/o the Principal Chief Conservator of Forests
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(A.K.Shukla)

PCCF (Env.& CC)
& Nodal Officer (FCA)